Comp. Biochem. Physiol. Vol. 138B, No. 4 pp. I–IV, 2004

ELSEVIER

CONTENTS OF VOLUME 138

Vol. 138B, No. 1

General papers

T. Urashima, T. Nakamura, D. Nakagawa, M. Noda, I. Arai, T. Saito, C. Lydersen and K.M. Kovacs	1	Characterization of oligosaccharides in milk of bearded seal (*Erignathus barbatus*)
R.P. Guedes, M.I. Marchi, G.G. Viola, L.L. Xavier, M. Achaval and W.A. Partata	19	Somatostatin-, calcitonin gene-related peptide, and γ-aminobutyric acid-like immunoreactivity in the frog lumbosacral spinal cord: distribution and effects of sciatic nerve transection
T. Ytrestøyl, G. Coral-Hinostroza, B. Hatlen, D.H.F. Robb and B. Bjerkeng	29	Carotenoid and lipid content in mustle of Atlantic salmon, *Salmo salar* transferred to seawater as 0+ or 1+ smolts
D. Haubert, M.M. Häggblom, S. Scheu and L. Ruess	41	Effects of fungal food quality and starvation on the fatty acid composition of *Protaphorura fimata* (Collembola)
J.M.O. Fernandes, G.D. Kemp and V.J. Smith	53	Twio novel muramidases from skin mucosa of rainbow trout *Oncorhynchus mykiss*
L.P. Ponomarenko, I.V. Stonik, N.A. Aizdaicher, T.Yu. Orlova, G.I. Popovskaya, G.V. Pomazkina and V.A. Stonik	65	Sterols of marine microalgae *Pyramimonas* cf. *cordata* (Prasinophyta), *Attheya ussurensis* sp. nov. (Bacillariophyta) and a spring diatom bloom from Lake Baikal
J.F. Leatherland, L. Lin and R. Renaud	71	Effent of glutamate on basal steroidogenesis by ovarian follicles of rainbow trout (*Oncorhynchus mykiss*)
C. Aguirre, S. Valdés-Rodríguez, G. Mendoza-Hernández, A. Rojo-Domínguez and A. Blanco-Labra	81	A novel 8.7 kDa protease inhibitor from chan seeds (*Hyptis suaveolens* L.) inhibits proteases from the larger grain borer *Prostephanus truncatus* (Coleoptera: Brostrichidae)
J.R. Cejas, E. Almansa, S. Jérez, A. Bolaños, M. Samper and A. Lorenzo	91	Lipid and fatty acid composition of muscle and liver from wild and captive mature female broodstocks of white seabream, *Diplodus sargus*
	I	Instructions to Authors

Vol. 138B, No. 2

General papers

Y. Nagashima, M. Takeda, I. Ohta, K. Shimakura and K. Shiomi	103	Purification and properties of proteinaceous trypsin inhibitors in the skin mucus of pufferfish *Takifugu pardalis*
A.M. Azzarolo, K. Brew, S. Kota, O. Ponomareva, J. Schwartz and C. Zylberberg	111	Presence of tear lipocalin and other major proteins in lacrimal fluid of rabbits

S.M. Lowartz, R.L. Renaud, F.W.H. Beamish and J.F. Leatherland 119 Evidence for 15α- and 7α-hydroxylase activity in gonadal tissue of the early-life stages of sea lampreys, *Petromyzon marinus*

Y. Fujita, H. Ohi, N. Murayama, K.-i. Saguchi and S. Higuchi 129 Identification of multiple cytochrome P450 genes belonging to the CYP4 family in *Xenopus laevis*: cDNA cloning of CYP4F42 and CYP4V4

D.J. Johnston, A.J. Ritar and C.W. Thomas 137 Digestive enzyme profiles reveal digestive capacity and potential energy sources in fed and starved spiny lobster (*Jasus edwardsii*) phyllosoma larvae

I. Metón, A. Caseras, F. Fernández and I.V. Baanante 145 Molecular cloning of hepatic glucose-6-phosphatase catalytic subunit from gilthead sea bream (*Sparus aurata*): response of its mRNA levels and glucokinase expression to refeeding and diet composition

J. Carlos Sainz, F.L. García-Carreño and P. Hernández-Cortés 155 *Penaeus vannamei* isotrypsins: purification and characterization

E. Miyamoto, F. Watanabe, Y. Yamaguchi, H. Takenaka and Y. Nakano 163 Purification and characterization of methylmalonyl-CoA mutase from a photosynthetic coccolithophorid alga, *Pleurochrysis carterae*

E. Manseth, P.O. Skjervold, S.O. Fjæra, F.R. Brosstad, S. Bjørnson and R. Flengsrud 169 Purification and characterization of Atlantic salmon (*Salmo salar*) fibrinogen

F. Guillou, G. Mitta, C. Dissous, R. Pierce and C. Coustau 175 Use of individual polymorphism to validate potential functional markers: case of a candidate lectin (BgSel) differentially expressed in susceptible and resistant strains of *Biomphalaria glabrata*

I.S. Stoknes, H.M.W. Økland, E. Falch and M. Synnes 183 Fatty acid and lipid class composition in eyes and brain from teleosts and elasmobranchs

R.W. Howard and J.E. Baker 193 Stage-specific surface chemicals of *Plodia interpunctella*: 2-acyl-1,3-cyclohexanediones from larval mandibular glands serve as cuticular lipids

I Instructions to Authors

Vol. 138B, No. 3

General papers

S.K. Balfry and G.K. Iwama 207 Observations on the inherent variability of measuring lysozyme activity in coho salmon (*Oncorhynchus kisutch*)

D.L. Puppione, W.H. Fischer, M. Park, J.P. Whitelegge, V.N. Schumaker, S. Golfeiz and M.H. MacDonald 213 Sequence of horse (*Equus caballus*) apoA-II. Another example of a dimer forming apolipoprotein

K. Idakieva, S. Stoeva, W. Voelter and C. Gielens 221 Glycosylation of *Rapana thomasiana* hemocyanin. Comparison with other prosobranch (gastropod) hemocyanins

K.J. McGraw and M.C. Nogare 229 Carotenoid pigments and the selectivity of psittacofulvin-based coloration systems in parrots

S. Li, L. Xie, C. Zhang, Y. Zhang, M. Gu and R. Zhang 235 Cloning and expression of a pivotal calcium metabolism regulator: calmodulin involved in shell formation from pearl oyster (*Pinctada fucata*)

S.-Y. Cheng, W.-C. Lee and J.-C. Chen	245	Increase of uricogenesis in the kuruma shrimp *Marsupenaeus japonicus* reared under hyper-osmotic conditions
T. Kurokawa, S. Uji and T. Suzuki	255	Molecular cloning of multiple chitinase genes in Japanese flounder, *Paralichthys olivaceus*
D.R. Nelson, H. Hines and B. Stay	265	Methyl-branched hydrocarbons, major components of the waxy material coating the embryos of the viviparous cockroach *Diploptera punctata*
J. Perrier, A. Durand, T. Giardina and A. Puigserver	277	The rat kidney acylase 1. Evidence for a new cDNA form and comparisons with the porcine intestinal enzyme
B. Chen and J. Gui	285	Identification of a novel C1q family member in color crucian carp (*Carassius auratus*) ovary
J.-Y. Gong, J.D. Kittilson, B.J. Slagter and M.A. Sheridan	295	The two subtype 1 somatostatin receptors of rainbow trout, $Tsst_{1A}$ and $Tsst_{1B}$, possess both distinct and overlapping ligand binding and agonist-induced regulation features
L. Chen, H. Jiang, Z. Zhou, K. Li, K. Li, G.Y. Deng and Z. Liu	305	Purification of vitellin from the ovary of Chinese mitten-handed crab (*Eriocheir sinensis*) and development of an antivitellin ELISA
D.R. Nelson and R.E. Lee	313	Cuticular lipids and desiccation resistance in overwintering larvae of the goldenrod gall fly, *Eurosta solidaginis* (Diptera: Tephritidae)
	I	Instructions to Authors

Vol. 138B, No. 4

Obituary

R.J. Walker	321	Professor Gerald Allan Kerkut: 19 August 1927–6 March 2004: Editor: *Comparative Biochemistry and Physiology* 1960–1994

Symposium paper

M.A. Sheridan and J.D. Kittilson	323	The role of somatostatins in the regulation of metabolism in fish

General papers

O.L. Tavares-Sánchez, G.A. Gómez-Anduro, X. Felipe-Ortega, M.A. Islas-Osuna, R.R. Sotelo-Mundo, C. Barillas-Mury and G. Yepiz-Plascencia	331	Catalase from the white shrimp *Penaeus* (*Litopenaeus*) *vannamei*: molecular cloning and protein detection
K. Ouguerram, P. Nguyen, M. Krempf, E. Pouteau, F. Briand, E. Bailhache and T. Magot	339	Selective uptake of high density lipoproteins cholesteryl ester in the dog, a species lacking in cholesteryl ester transfer protein activity An in vivo approach using stable isotopes
H. Acosta, M. Dubourdieu, W. Quiñones, A. Cáceres, F. Bringaud and J.L. Concepción	347	Pyruvate phosphate dikinase and pyrophosphate metabolism in the glycosome of *Trypanosoma cruzi* epimastigotes
C.S. Cobb, S.C. Frankling, M.C. Thorndyke, F.B. Jensen, J.C. Rankin and J.A. Brown	357	Angiotensin I-converting enzyme-like activity in tissues from the Atlantic hagfish (*Myxine glutinosa*) and detection of immunoreactive plasma angiotensins
T. Hashimoto, A. Sugiyama and S. Taguchi	365	Myosin heavy chain isoforms expression and cyclic AMP concentrations in hypoxia-induced hypertrophied right ventricle in rats

N.N. Pouchkina-Stantcheva and S.J. McQueen-Mason	371	Molecular studies of a novel dragline silk from a nursery web spider, *Euprosthenops* sp. (Pisauridae)
A. Stratil, D. Wagenknecht, M. Van Poucke, S. Kubíčková, H. Bartenschlager, P. Musilová, J. Rubeš, H. Geldermann and L.J. Peelman	377	Comparative and genetic analysis of the porcine glucocerebrosidase (*GBA*) gene
M.S. Ziętara, E. Słomińska, E. Rurangwa, F. Ollevier, J. Świerczyński and E.F. Skorkowski	385	In vitro adenine nucleotide catabolism in African catfish spermatozoa
M.K. Sharma, E.M. Denovan-Wright, A. Degrave, C. Thisse, B. Thisse and J.M. Wright	391	Sequence, linkage mapping and early developmental expression of the intestinal-type fatty acid-binding protein gene (*fabp2*) from zebrafish (*Danio rerio*)
G. Soslau, B. Wallace, C. Vicente, S.J. Goldenberg, T. Tupis, J. Spotila, R. George, F. Paladino, B. Whitaker, G. Violetta and R. Piedra	399	Comparison of functional aspects of the coagulation cascade in human and sea turtle plasmas
B.K. Speake and E.A. Deans	407	Biosynthesis of oleic, arachidonic and docosahexaenoic acids from their C_{18} precursors in the yolk sac membrane of the avian embryo
F. Vargas-Albores, G. Yepiz-Plascencia, F. Jiménez-Vega and A. Ávila-Villa	415	Structural and functional differences of *Litopenaeus vannamei* crustins
S.R. Kim, K.S. Lee, H.J. Yoon, N.S. Park, S.M. Lee, I. Kim, S.J. Seo, H.D. Sohn and B.R. Jin	423	Molecular cloning, expression and characterization of cDNAs encoding the ferritin subunits from the beetle, *Apriona germari*
M. Amano, K. Okubo, T. Yamanome, H. Yamada, K. Aida and K. Yamamori	435	Changes in brain GnRH mRNA and pituitary GnRH peptide during testicular maturation in barfin flounder

Corrigendum

K.-J. Hu and P.-C. Leung	445	Corrigendum to "Shrimp cathepsin L encoded by an intronless gene has predominant expression in hepatopancreas, and occurs in the nucleus of oocyte" [Comp. Biochem. Physiol. 137B (2004) 21–33]
	I	Contents of Volume
	V	Subject Index
	IX	Author Index
	XI	Instructions to Authors